



ELECTRONIC TUBE REFERENCE

QY3125

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Thoriated-tungsten directly heated VHF power tetrode designed for RF and modulator service. Its filamentary transmitting construction supports professional high-frequency output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 6.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.0022 S
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	125 W
<i>Published ratings and characteristics promoted semantically from the approved source; repeated identical physical sections compressed where applicable.</i>	

The Mullard QY3125 is a thoriated-tungsten directly heated VHF power tetrode for RF and modulator service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Frequency Full Ratings	120 MHz	—
Operating Frequency Reduced Ratings	200 MHz	—
Power Output	375 W	ClassC,120MHz



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 MULLARD

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	5 V	—
Heater/Filament Current	6.5 A	—
Transconductance	2200 μ S	RepresentativeSpecifiedOperatingPoint
Input Capacitance	10.8 pF	—
Output Capacitance	3.1 pF	—
Plate-Grid Capacitance	0.05 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	200 MHz	FullOrSpecifiedRatings
Maximum Plate Voltage	3000 V	—
Maximum Screen Voltage	400 V	—
Maximum Plate Dissipation	125 W	—
RF Output Power	375 W	RepresentativePublishedOperatingPoint
RF Output Power	300 W	RepresentativePublishedOperatingPoint
Push-Pull Audio Output Power	550 W	RepresentativePublishedOperatingPoint
Plate Voltage	3000 V	ClassC; f<120MHz
Screen Voltage	350 V	ClassC
Plate Current	167 mA	ClassC
RF Output Power	375 W	ClassC
Efficiency	75 percent	ClassC

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